

REMARKS

This application has been amended by amending the specifications to,

- (1) include all inventors names on the first page of the specification,
- (2) correct inadvertent typographical errors, and
- (3) add a brief description of Figure 6.

The claims have been amended. Several sets of claims have been cancelled in order to reduce the total number of claims. Claims 23 to 30 to a storage device for a computer program have been canceled solely for that reason. Likewise, Claims 31-38 to a propagated signal have been canceled solely for that reason. Claims 62-104 have also been canceled.

Claims 1-22, and 39-61 remain in the application.

Many of the claims have been amended to clear § 112 rejections of paragraph 3 of the 6-02-03 Office Action. For example, the terms **the** surface card, **the** downhole card, in near real time and **the** operating characteristic have all been amended in the various claims in which they appear to provide a proper antecedent basis for each term. The original problem of

“a graphics signal representative of at least one of the surface **or** the downhole card”

has been amended to read

-- a graphics signal representative of at least one **card** of the surface card **and** the downhole card --.

With respect to the § 102 rejection of claims 1, 7, 15, 39, 40, 48, and 56, applicants respectfully traverse the Examiner’s review that Vazquez et al (US 6,343,656) discloses a system that provides

“a viewable graphical representation of said at least one card.” (applicant’s claim 1)

or

“displaying a viewable graphical representation of said at least one card on an output system (140) which is permanently positional in association with said pump (110).” (applicant’s claim 7)

or

“provide a viewable graphical representation of said at least one card.” (applicant’s claim 15)

or

“provides a viewable graphical representation of the graphics signal or a display screen on a regular basis as part of normal operations of the pump (110).” (applicant’s claim 39)

or

“generating a viewable graphical representation of both the surface card and the downhole card, which for the viewable graphical representation on axis on the surface card representing position is at the same scale as an axis on the downhole card representing position.” (applicant’s claims 40, 48, 56).

It is recognized that Vazquez generates surface and downhole cards (dynagraph charts) from power consumption information from a control unit. But Vazquez does not provide a **viewable** geographical representation on a display screen, does not display surface

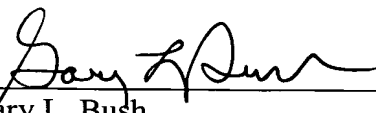
or downhole cards on a system permanently positioned in accordance with the pump, does not provide a viewable graphical representation of the graphics signal on a display screen on a **regular basis** as part of normal operations of the pump, and does not produce a surface card and a downhole card on a display with a common scale on an axis representing position.

All that Vazquez does is produce a surface card and a downhole card as calculations to produce a control signal for the pump if a match is found between the calculated downhole card and "previously identified data." But there is no disclosure at all for creating a visual display so that a technician can see a card at the well site or (via communication to a central site) which is representative of the operating performance of the pump.

Furthermore, Vazquez does not teach or suggest, or would it be obvious to provide from Vazquez' specification the viewable display as defined by applicant's claims 1, 7, 15, 39, 40, 48 and 56.

In view of the amendments to the specification and the claims and the remarks, applicants respectfully request allowance of claims 1-22 and 39-61 and passage of this application to issue.

Respectfully submitted,

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Date: Oct 6, 2003